

**WHAT IS CLAIMED IS:**

1. An insulation blanket for providing thermal and noise insulation to the cabin of an aircraft, said insulation blanket comprising:  
an insulation layer containing an insulation material; and  
5 a barrier layer positioned adjacent to said insulation layer, said barrier layer containing a film attached to a scrim, said scrim being made from generally flame-retardant, textured yarns.

2. An insulation blanket as defined in claim 1, further comprising a second barrier layer positioned adjacent to said insulation layer so that said insulation layer is sandwiched between said barrier layer and said  
10 second barrier layer.

3. An insulation blanket as defined in claim 2, wherein said second barrier layer contains a film attached to a scrim, said scrim of said second barrier layer being made from generally flame-retardant,  
15 textured yarns.

4. An insulation blanket as defined in claim 1, wherein said textured yarns are formed from generally flame-retardant polyester fibers.

5. An insulation blanket as defined in claim 1, wherein said yarns  
20 have a denier of from about 70 to about 1,200.

6. An insulation blanket as defined in claim 1, wherein said yarns have a denier of from about 100 to about 300.

7. An insulation blanket as defined in claim 1, wherein said textured yarns are formed by false-twist texturizing.

8. An insulation blanket as defined in claim 1, wherein said scrim  
25 has a Leno weave.

9. An insulation blanket as defined in claim 1, wherein said scrim has a basis weight of less than about 1 ounce per square yard.

10. An insulation blanket as defined in claim 1, wherein said

11. An insulation blanket as defined in claim 1, wherein said film is a polymer film.

~~13. An n insulation blanket as defined in claim 1, wherein said film is vapor-permeable.~~

15. An insulation blanket as defined in claim 1, wherein said blanket has a thickness between about 1 to about 4 inches.

an insulation layer sandwiched between said first barrier layer and said second barrier layer, said insulation layer containing an insulation material.

18. An insulation blanket as defined in claim 16, wherein said yarns have a denier of from about 100 to about 300.

19. An insulation blanket as defined in claim 16, wherein said scrim has a Leno weave.

20. An insulation blanket as defined in claim 16, wherein said

scrim has a basis weight of less than about 1 ounce per square yard.

21. An insulation blanket as defined in claim 16, wherein said scrim has a basis weight of from about 0.25 to about 0.45 ounces per square yard.

5 22. An insulation blanket as defined in claim 16, wherein said film is a polymer film.

23. An insulation blanket as defined in claim 22, wherein said film is a polyester film.

10 ~~24. An n insulation blanket as defined in claim 16, wherein said film is vapor-permeable.~~

25. A barrier layer that is suitable for use in an aircraft insulation blanket, said barrier layer comprising:

a polymer film; and

15 a scrim attached to said polymer film, said scrim being made from generally flame-retardant, textured yarns, said textured yarns having a denier of from about 70 to about 1,200 and being formed from polyester fibers.

26. An insulation blanket as defined in claim 25, wherein said yarns have a denier of from about 100 to about 300.

20 27. An insulation blanket as defined in claim 25, wherein said textured yarns are formed by false-twist texturizing.

28. An insulation blanket as defined in claim 25, wherein said scrim has a Leno weave.

25 29. An insulation blanket as defined in claim 25, wherein said scrim has a basis weight of less than about 1 ounce per square yard.

30. An insulation blanket as defined in claim 25, wherein said scrim has a basis weight of from about 0.25 to about 0.45 ounces per square yard.

31. An insulation blanket as defined in claim 25, wherein said

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polymer film is a polyester film.

32. An insulation blanket as defined in claim 25, wherein said polymer film is vapor-permeable.

33. An insulation blanket as defined in claim 25, wherein said  
5 polyester fibers are generally flame-retardant.

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